

Neckářová Kamila – Rigorózní práce – 2006

This work deals with deformation index of tablets of microcrystalline cellulose, mannitol and lactose. The aim of the work was to find out the effect of filler on parameters DE and  $E_2$ . The new parameter DI, deformation index, was studied as well. It expresses the ratio between DE and  $E_2$ . The measurement was carried out by means of T1 – FRO 50 device.

The results show that the highest amount of energy was accumulated by mannitol, less by lactose and lowest amount by microcrystalline cellulose. The anhydride form lactose and mannitol has the parameter D lower than monohydrates. A semilogarithmic dependence was found between parameters D and DE. New parameter DI reaches highest value for microcrystalline cellulose, lower for mannitol and lowest for lactose.